

RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: 10/528,989
Source: PT
Date Processed by STIC: 7/3/06

ENTERED



PCT

RAW SEQUENCE LISTING

DATE: 07/03/2006

PATENT APPLICATION: US/10/528,989

TIME: 12:25:53

Input Set : A:\2005-10-19 0933-0238P.ST25.txt

Output Set: N:\CRF4\07032006\J528989.raw

3 <110> APPLICANT: VALTANEN, Heli et. al.
 5 <120> TITLE OF INVENTION: METHOD FOR DESIGNING PEPTIDES
 7 <130> FILE REFERENCE: 0933-0238PUS1
 9 <140> CURRENT APPLICATION NUMBER: US 10/528,989
 10 <141> CURRENT FILING DATE: 2005-03-24
 12 <150> PRIOR APPLICATION NUMBER: PCT/FI2003/000705
 13 <151> PRIOR FILING DATE: 2003-09-29
 15 <160> NUMBER OF SEQ ID NOS: 27
 17 <170> SOFTWARE: PatentIn version 3.3
 19 <210> SEQ ID NO: 1
 20 <211> LENGTH: 30
 21 <212> TYPE: DNA
 22 <213> ORGANISM: Artificial Sequence
 24 <220> FEATURE:
 25 <223> OTHER INFORMATION: Synthetic intein Fwd SapI primer
 27 <400> SEQUENCE: 1
 28 cctttctgct cttccaacgc cgacggggct 30
 31 <210> SEQ ID NO: 2
 32 <211> LENGTH: 30
 33 <212> TYPE: DNA
 34 <213> ORGANISM: Artificial Sequence
 36 <220> FEATURE:
 37 <223> OTHER INFORMATION: Synthetic intein Rev PstI primer
 39 <400> SEQUENCE: 2
 40 actttcaacc tgcagttacc cagcggcccc 30
 43 <210> SEQ ID NO: 3
 44 <211> LENGTH: 59
 45 <212> TYPE: DNA
 46 <213> ORGANISM: Artificial Sequence
 48 <220> FEATURE:
 49 <223> OTHER INFORMATION: Synthetic oligonucleotide encoding SEQ ID NO: 10
 51 <400> SEQUENCE: 3
 52 ggtggtgctc ttccaactgt acgacccatt ggggatttac tttatgttaa ctgcaggcg 59
 55 <210> SEQ ID NO: 4
 56 <211> LENGTH: 15
 57 <212> TYPE: DNA
 58 <213> ORGANISM: Artificial Sequence
 60 <220> FEATURE:
 61 <223> OTHER INFORMATION: Synthetic primer used to convert SEQ ID NO: 3 to double-stranded form
 63 <400> SEQUENCE: 4
 64 cgcctgcagt taaca 15
 67 <210> SEQ ID NO: 5
 68 <211> LENGTH: 75

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69 <212> TYPE: DNA
 70 <213> ORGANISM: Artificial Sequence
 72 <220> FEATURE:
 73 <223> OTHER INFORMATION: Synthetic degenerate oligonucleotide used in the cloning of
 the intein-
 74 peptide fusions
 76 <400> SEQUENCE: 5
 77 ggtggttgct cttccaacgg ccgccvavva vtatvavggc tgtaccaccc atttacttta 60
 78 tggttaactgc aggcg 75
 81 <210> SEQ ID NO: 6
 82 <211> LENGTH: 17
 83 <212> TYPE: DNA
 84 <213> ORGANISM: Artificial Sequence
 86 <220> FEATURE:
 87 <223> OTHER INFORMATION: Transposon specific primer
 89 <400> SEQUENCE: 6
 90 atcagcggcc gcgatcc 17
 93 <210> SEQ ID NO: 7
 94 <211> LENGTH: 21
 95 <212> TYPE: DNA
 96 <213> ORGANISM: Artificial Sequence
 98 <220> FEATURE:
 99 <223> OTHER INFORMATION: Transposon specific primer
 101 <400> SEQUENCE: 7
 102 ttattcggtc gaaaaggatc c 21
 105 <210> SEQ ID NO: 8
 106 <211> LENGTH: 4
 107 <212> TYPE: PRT
 108 <213> ORGANISM: Unknown
 110 <220> FEATURE:
 111 <223> OTHER INFORMATION: Peptide derived from phage
 113 <400> SEQUENCE: 8
 114 Ala Asp Gly Ala
 115 1
 118 <210> SEQ ID NO: 9
 119 <211> LENGTH: 4
 120 <212> TYPE: PRT
 121 <213> ORGANISM: Unknown
 123 <220> FEATURE:
 124 <223> OTHER INFORMATION: Peptide derived from phage
 126 <400> SEQUENCE: 9
 127 Gly Ala Ala Gly
 128 1
 131 <210> SEQ ID NO: 10
 132 <211> LENGTH: 10
 133 <212> TYPE: PRT
 134 <213> ORGANISM: Unknown
 136 <220> FEATURE:
 137 <223> OTHER INFORMATION: Recombinant peptide prepared by the intein system
 139 <400> SEQUENCE: 10

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140 Cys Thr Thr His Trp Gly Phe Thr Leu Cys

141 1 5 10

144 <210> SEQ ID NO: 11

145 <211> LENGTH: 10

146 <212> TYPE: PRT

147 <213> ORGANISM: Unknown

149 <220> FEATURE:

150 <223> OTHER INFORMATION: Non-cyclic synthetic control peptide

152 <400> SEQUENCE: 11

153 Ser Thr Thr His Trp Gly Phe Thr Leu Ser

154 1 5 10

157 <210> SEQ ID NO: 12

158 <211> LENGTH: 10

159 <212> TYPE: PRT

160 <213> ORGANISM: Artificial Sequence

162 <220> FEATURE:

163 <223> OTHER INFORMATION: Description of Artificial Sequence: Ala-substitution of the CTT-peptide

165 <400> SEQUENCE: 12

166 Cys Ala Thr His Trp Gly Phe Thr Leu Cys

167 1 5 10

170 <210> SEQ ID NO: 13

171 <211> LENGTH: 10

172 <212> TYPE: PRT

173 <213> ORGANISM: Artificial Sequence

175 <220> FEATURE:

176 <223> OTHER INFORMATION: Description of Artificial Sequence: Ala-substitution of the CTT-peptide

178 <400> SEQUENCE: 13

179 Cys Thr Ala His Trp Gly Phe Thr Leu Cys

180 1 5 10

183 <210> SEQ ID NO: 14

184 <211> LENGTH: 10

185 <212> TYPE: PRT

186 <213> ORGANISM: Artificial Sequence

188 <220> FEATURE:

189 <223> OTHER INFORMATION: Description of Artificial Sequence: Ala-substitution of the CTT-peptide

191 <400> SEQUENCE: 14

192 Cys Thr Thr Ala Trp Gly Phe Thr Leu Cys

193 1 5 10

196 <210> SEQ ID NO: 15

197 <211> LENGTH: 10

198 <212> TYPE: PRT

199 <213> ORGANISM: Artificial Sequence

201 <220> FEATURE:

202 <223> OTHER INFORMATION: Description of Artificial Sequence: Ala-substitution of the CTT-peptide

204 <400> SEQUENCE: 15

205 Cys Thr Thr His Ala Gly Phe Thr Leu Cys

206 1 5 10

209 <210> SEQ ID NO: 16

210 <211> LENGTH: 10

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211 <212> TYPE: PRT
212 <213> ORGANISM: Artificial Sequence
214 <220> FEATURE:
215 <223> OTHER INFORMATION: Description of Artificial Sequence: Ala-substitution of the
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217 <400> SEQUENCE: 16
218 Cys Thr Thr His Trp Ala Phe Thr Leu Cys
219   1               5               10
222 <210> SEQ ID NO: 17
223 <211> LENGTH: 10
224 <212> TYPE: PRT
225 <213> ORGANISM: Artificial Sequence
228 <220> FEATURE:
229 <223> OTHER INFORMATION: Description of Artificial Sequence: Ala-substitution of the
CTT-peptide
231 <400> SEQUENCE: 17
232 Cys Thr Thr His Trp Gly Ala Thr Leu Cys
233   1               5               10
236 <210> SEQ ID NO: 18
237 <211> LENGTH: 9
238 <212> TYPE: PRT
239 <213> ORGANISM: Artificial Sequence
241 <220> FEATURE:
242 <223> OTHER INFORMATION: Description of Artificial Sequence: Ala-substitution of the
CTT-peptide
244 <400> SEQUENCE: 18
245 Cys Thr Thr His Trp Gly Phe Ala Leu
246   1               5
249 <210> SEQ ID NO: 19
250 <211> LENGTH: 10
251 <212> TYPE: PRT
252 <213> ORGANISM: Artificial Sequence
254 <220> FEATURE:
255 <223> OTHER INFORMATION: Description of Artificial Sequence: Ala-substitution of the
CTT-peptide
257 <400> SEQUENCE: 19
258 Cys Thr Thr His Trp Gly Phe Ala Leu Cys
259   1               5               10
262 <210> SEQ ID NO: 20
263 <211> LENGTH: 10
264 <212> TYPE: PRT
265 <213> ORGANISM: Artificial Sequence
267 <220> FEATURE:
268 <223> OTHER INFORMATION: Description of Artificial Sequence:
269   CTT-peptide with a tryptophan analogue at position 5
271 <220> FEATURE:
272 <221> NAME/KEY: misc_feature
273 <222> LOCATION: (5)..(5)
274 <223> OTHER INFORMATION: Xaa at position 5 is 5-OH-Trp, 5-F-Trp or 6-F-Trp
276 <400> SEQUENCE: 20
W--> 277 Cys Thr Thr His Xaa Gly Phe Thr Leu Cys
278   1               5               10
281 <210> SEQ ID NO: 21

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282 <211> LENGTH: 10
283 <212> TYPE: PRT
284 <213> ORGANISM: Artificial Sequence
286 <220> FEATURE:
287 <223> OTHER INFORMATION: Description of Artificial Sequence: Control sequence
289 <400> SEQUENCE: 21
290 Cys Glu Arg Gly Gly Leu Glu Thr Ser Cys
291   1           5           10
294 <210> SEQ ID NO: 22
295 <211> LENGTH: 9
296 <212> TYPE: PRT
297 <213> ORGANISM: Artificial Sequence
299 <220> FEATURE:
300 <223> OTHER INFORMATION: Description of Artificial Sequence: Control sequence
302 <400> SEQUENCE: 22
303 Cys Pro Cys Phe Leu Leu Gly Cys Cys
304   1           5
307 <210> SEQ ID NO: 23
308 <211> LENGTH: 17
309 <212> TYPE: PRT
310 <213> ORGANISM: Artificial Sequence
312 <220> FEATURE:
313 <223> OTHER INFORMATION: Description of Artificial Sequence:
314     CTT-peptide with additional hydrophilic amino acids
316 <220> FEATURE:
317 <221> NAME/KEY: misc_feature
318 <222> LOCATION: (3)..(4)
319 <223> OTHER INFORMATION: Xaa at positions 3 and 4 is any hydrophilic amino acid
321 <220> FEATURE:
322 <221> NAME/KEY: misc_feature
323 <222> LOCATION: (6)..(6)
324 <223> OTHER INFORMATION: Xaa at position 6 is any hydrophilic amino acid
327 <400> SEQUENCE: 23
W--> 328 Gly Arg Xaa Xaa Tyr Xaa Gly Cys Thr Thr His Trp Gly Phe Thr Leu
329   1           5           10           15
331 Cys
335 <210> SEQ ID NO: 24
336 <211> LENGTH: 17
337 <212> TYPE: PRT
338 <213> ORGANISM: Artificial Sequence
340 <220> FEATURE:
341 <223> OTHER INFORMATION: Description of Artificial Sequence:
342     CTT-peptide with additional hydrophilic amino acids
344 <400> SEQUENCE: 24
345 Gly Arg Glu Asn Tyr His Gly Cys Thr Thr His Trp Gly Phe Thr Leu
346   1           5           10           15
348 Cys
351 <210> SEQ ID NO: 25
352 <211> LENGTH: 9

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RAW SEQUENCE LISTING ERROR SUMMARY
PATENT APPLICATION: US/10/528,989

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Input Set : A:\2005-10-19 0933-0238P.ST25.txt
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Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:20; Xaa Pos. 5
Seq#:23; Xaa Pos. 3,4,6
Seq#:25; Xaa Pos. 5
Seq#:26; Xaa Pos. 1,5,6

Invalid Line Length:

The rules require that a line not exceed 72 characters in length. This includes spaces.

Seq#:25; Line(s) 362

VERIFICATION SUMMARY

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Input Set : A:\2005-10-19 0933-0238P.ST25.txt

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L:277 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:20 after pos.:0
L:328 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:23 after pos.:0
L:367 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:25 after pos.:0
L:397 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:26 after pos.:0